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SDBS-¹³C NMRSDBS No. 1716CDS-12-007
 C₁₅H₁₆O₂
 4,4'-isopropylidenediphenol

22.53 MHz
 0.025 g : 0.5 ml DMSO-d₆

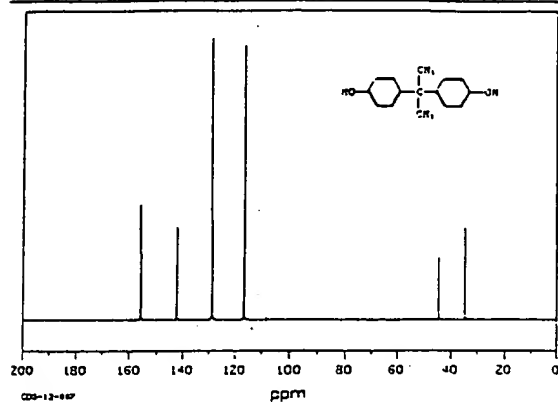
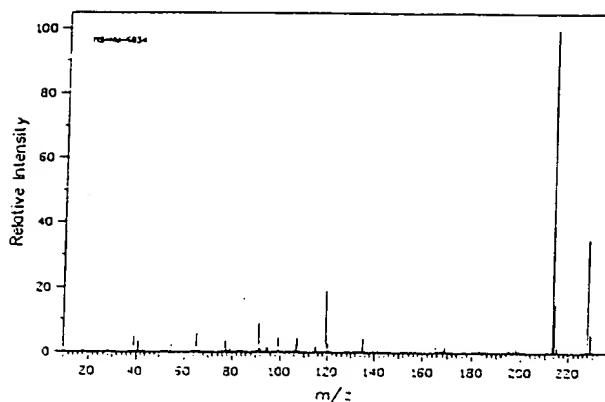


Fig. 1 (a)

SDBS-Mass

MS-NM-4834 SDBS NO. 1716
 4,4'-ISOPROPYLIDENEDIPHENOL
 C15H16O2 (Mass of molecular ion: 224)



Source Temperature: 120 °
 Sample Temperature: 110 °
 Direct: 5 kV

Fig. 1 (b)

HIT-NO-1641 SCORE= 1.1 SDBS-NO-1716 [R-N10A-05052 : KBR DISC]
 4,4'-ISOPROPYLIDENEDIPHENOL
 C₁₅H₁₆O₂

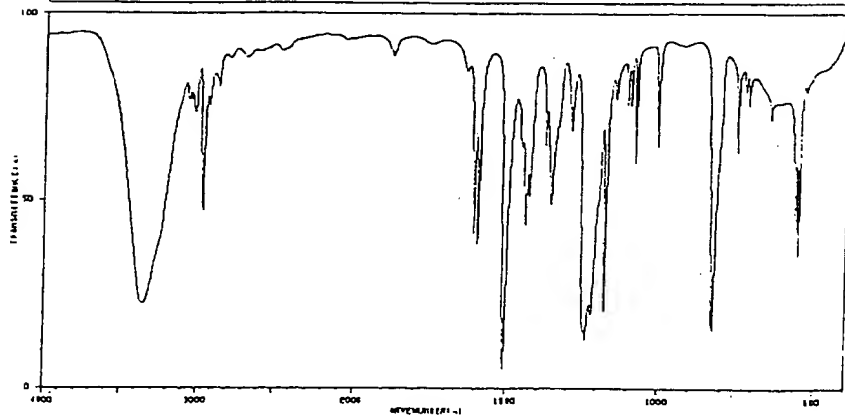
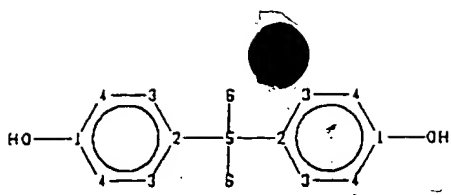


Fig. 1 (c)



¹³C δ ppm Int. Assign.

154.72	411	1
140.94	330	2
127.11	1000	3
114.43	977	4
40.78	223	5
30.73	328	6

Fig 2(a)

SDBS-Mass

MS-NW-5834 SDBS NO. 1716
4,4'-ISOPROPYLIDENEDIPHENOL
C15H16O2 (Mass of molecular ion: 228)

m/z ratio

27.0	1
39.0	4
41.0	3
51.0	2
55.0	2
63.0	2
65.0	5
66.0	1
76.0	1
77.0	3
79.0	1
89.0	1
90.0	1
91.0	9
92.0	1
94.0	2
95.0	1
99.0	4
105.0	1
106.5	2
107.0	4
114.0	1
115.0	1
119.0	13
120.0	2
134.0	1
135.0	4
152.0	1
165.0	2
169.0	1
181.0	1
183.0	1
195.0	1
197.0	1
198.0	1
212.0	1
213.0	1
214.0	1
215.0	1
229.0	35
229.0	3

Fig 2(b)

cm ⁻¹	%T	cm ⁻¹	%T	cm ⁻¹	%T	cm ⁻¹	%T	cm ⁻¹	%T
3168	21	2933	72	1436	49	1178	20	816	66
3070	74	2871	77	1384	62	1150	74	759	60
3050	74	1612	59	1363	47	1113	72	715	77
3030	70	1600	37	1296	66	1102	72	724	72
2976	46	1510	4	1247	14	1085	57	650	63
2966	46	1483	62	1239	12	1013	62	565	41
2956	62	1447	42	1221	19	827	14	663	34

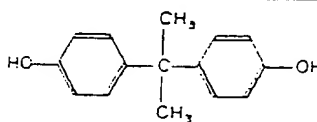
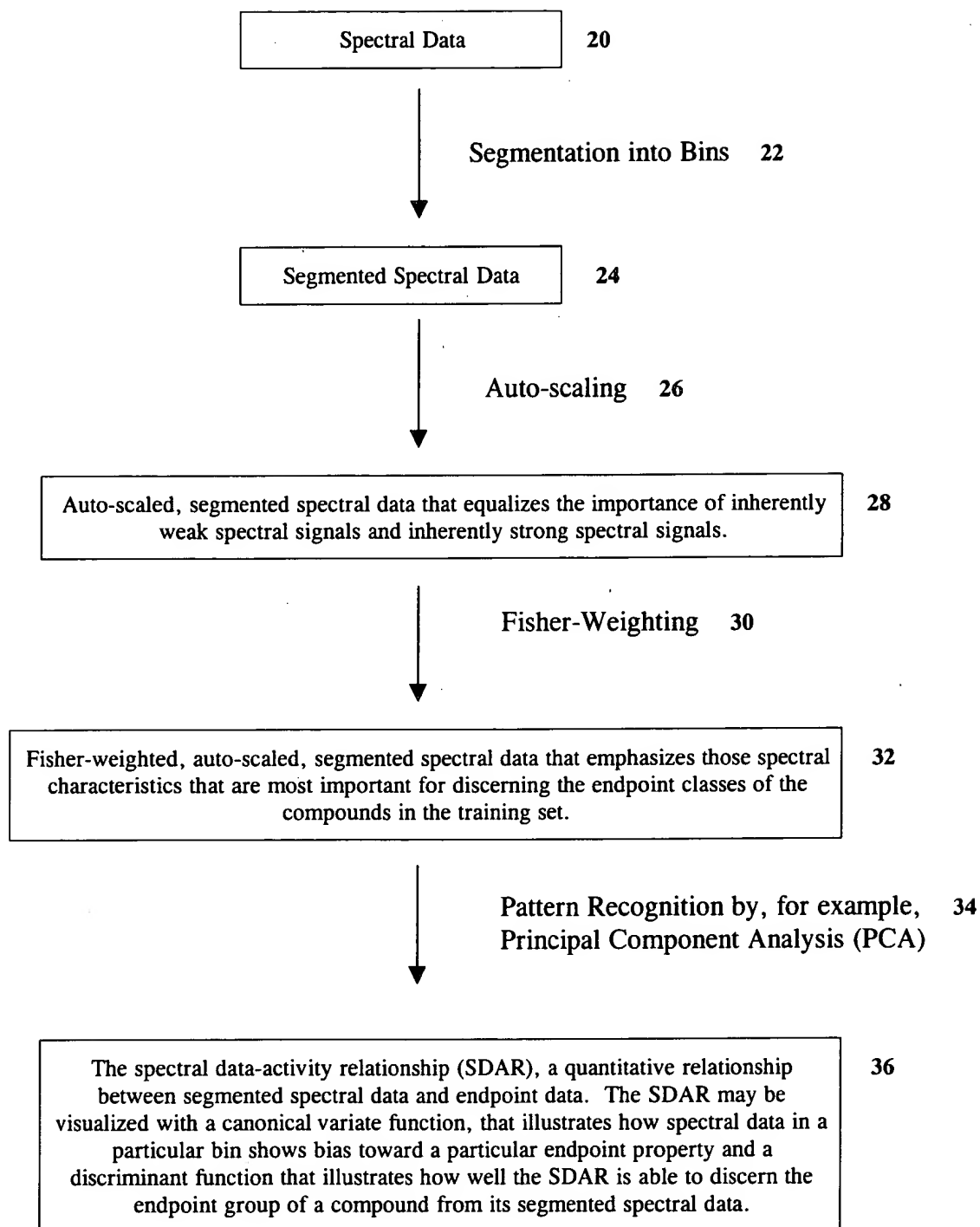


Fig 2(c)

Bin Number	Spectral Intensity	Bin Number	Spectral Intensity	Bin Number	Spectral Intensity
51	2	183	1	1025	62
55	2	195	1	1026	42
63	2	197	1	1027	49
65	5	198	1	1032	62
66	1	212	1	1034	47
76	1	213	100	1041	66
77	3	214	15	1046	14
79	1	215	1	1047	12
89	1	228	35	1048	19
90	1	229	5	1053	20
91	9	580	328	1056	74
92	1	590	223	1059	72
94	2	664	977	1060	72
95	1	677	1000	1062	57
99	4	690	330	1069	62
105	1	704	441	1088	14
106	2	834	21	1089	55
107	4	864	74	1095	60
114	1	866	74	1097	77
115	1	868	70	1098	72
119	19	873	46	1106	68
120	2	874	46	1114	41
134	1	875	62	1115	34
135	4	877	72		
152	1	883	77		
165	2	1009	39		
169	1	1011	37		
181	1	1019	4		

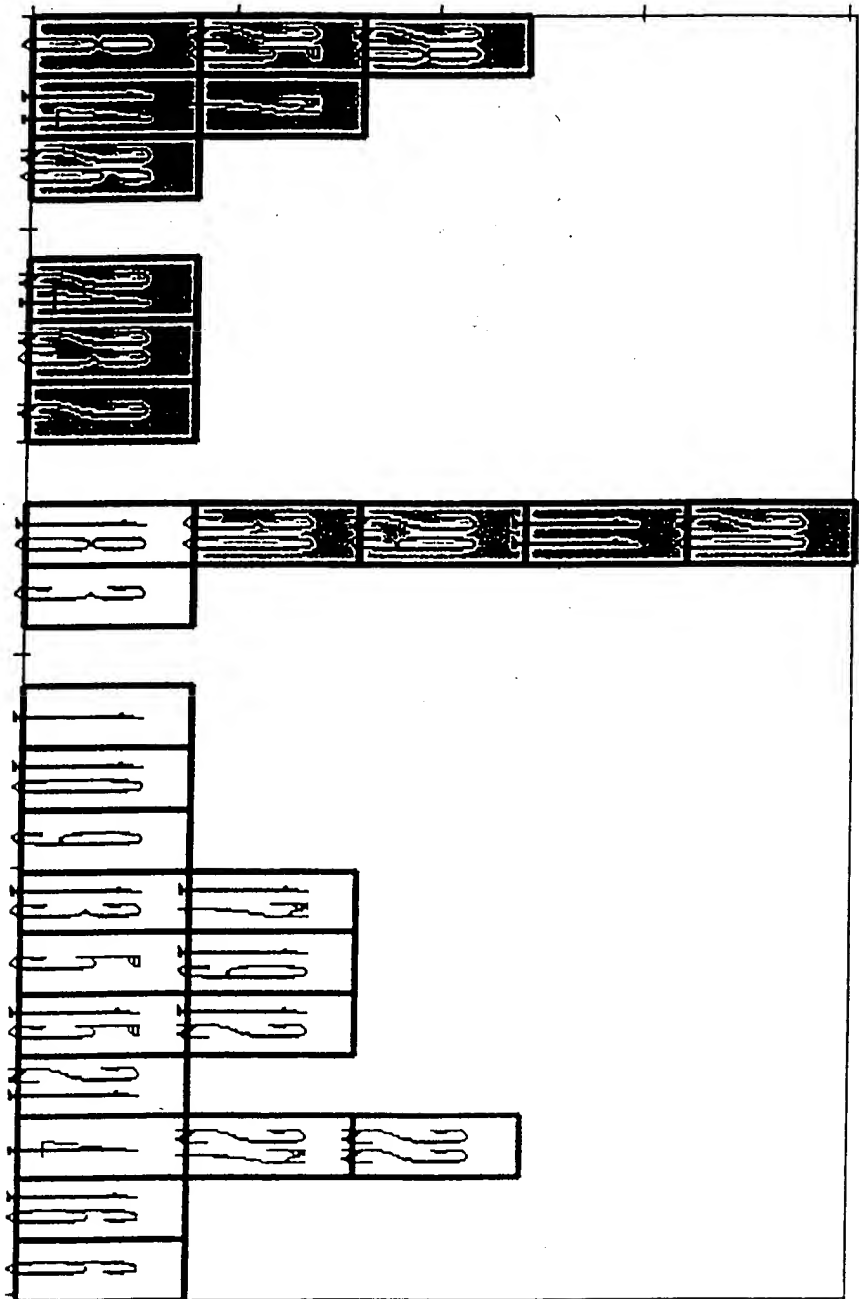
FIG. 3 – a hypothetical set of spectrally derived molecular structure descriptors for bisphenol A.

FIG. 4



DISCRIMINANT FUNCTION

COMPONENT FREQUENCY



COMPONENT 1

FIG. 5
090933Z 073100

CANONICAL VARIATE 1

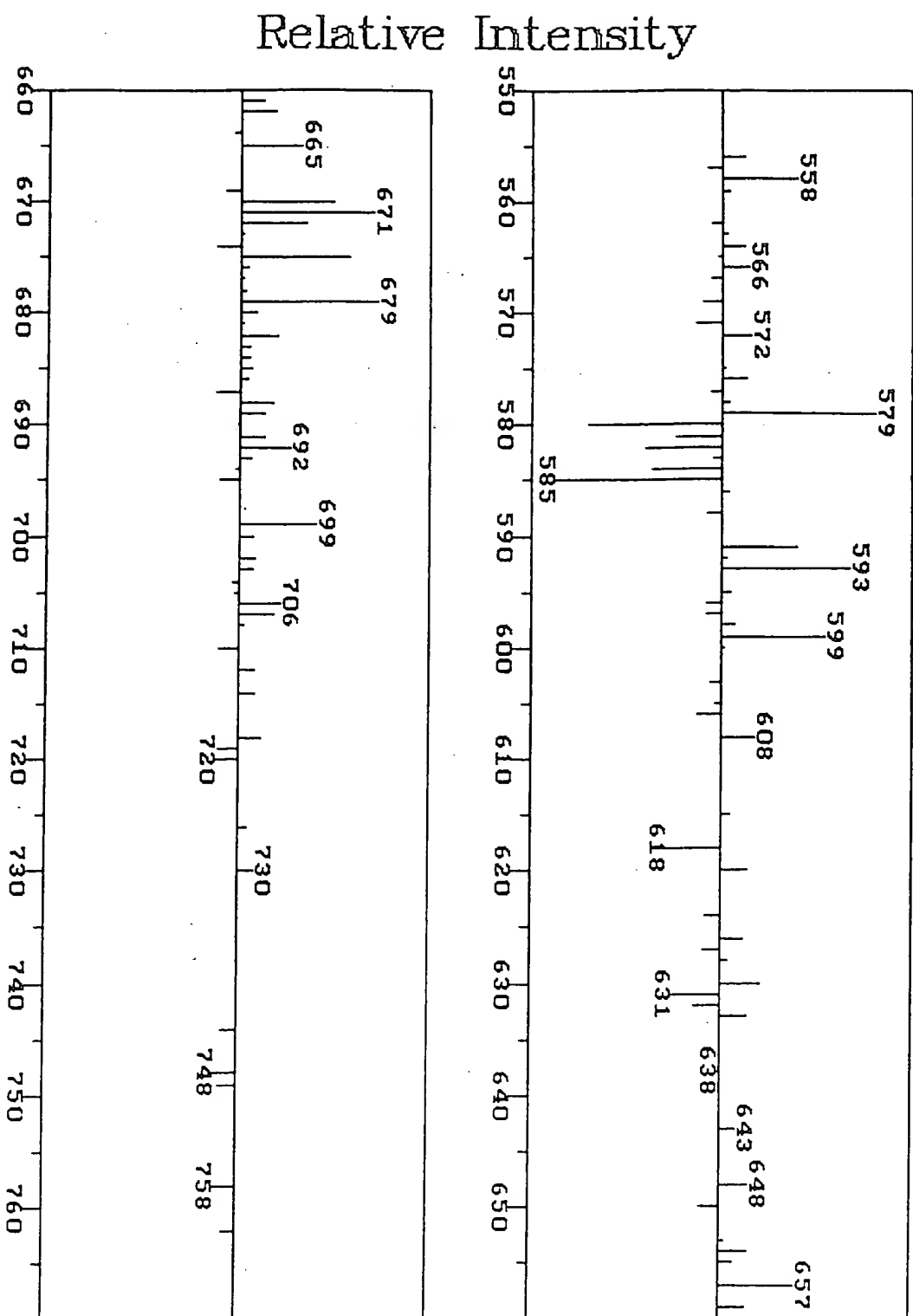
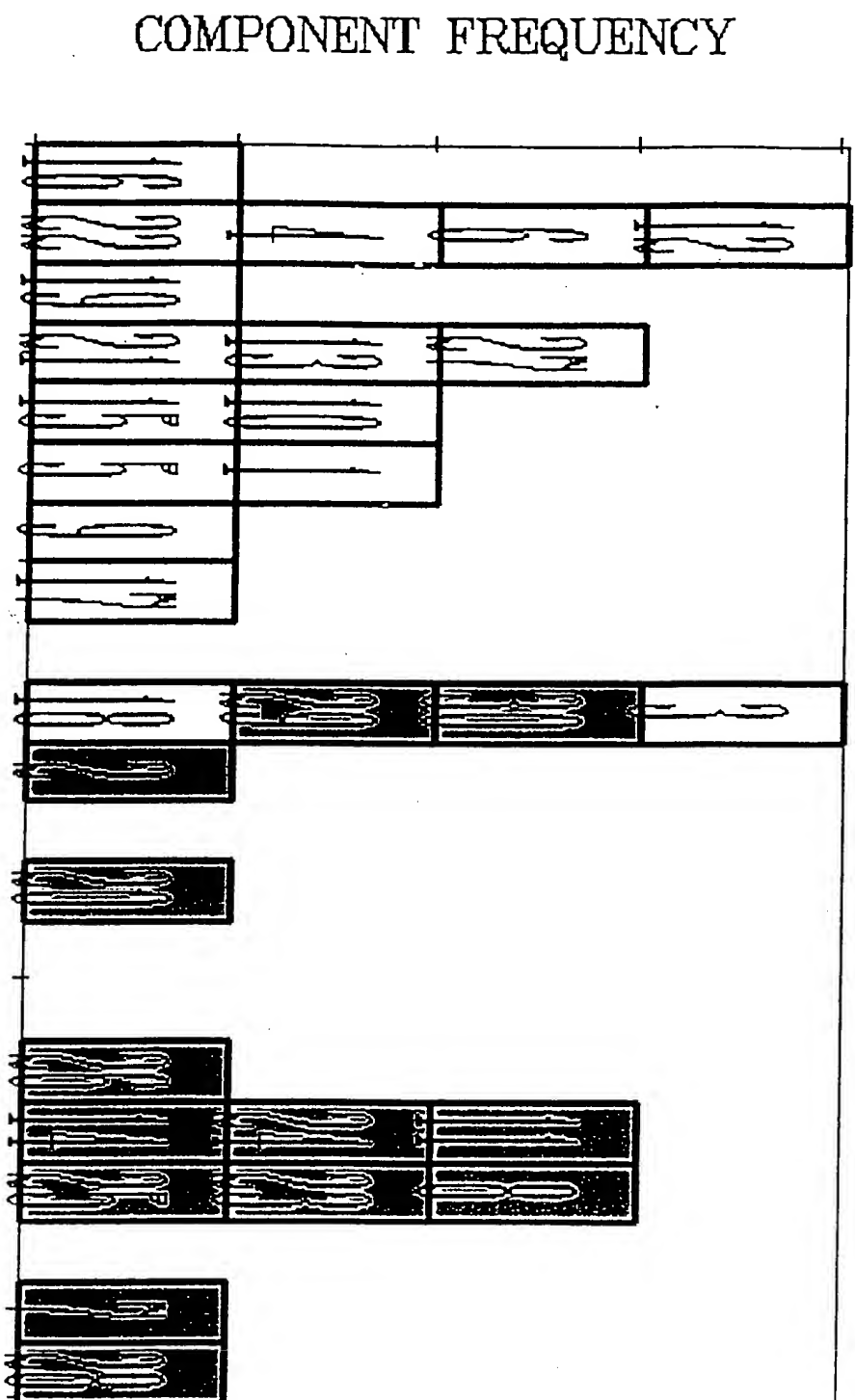


FIG. 6

09625557.073400

DISCRIMINANT FUNCTION

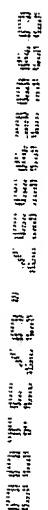


COMPONENT 1

FIG. 7

09629597-073400

Mass spectrum of compound 10. The x-axis represents the mass-to-charge ratio (m/z) from 50 to 290. The y-axis represents relative intensity. The base peak is at m/z 228. Other labeled peaks include m/z 65, 73, 83, 89, 95, 102, 110, 119, 127, 139, 145, 150, 157, 164, 169, 174, 182, 187, 194, 203, 220, 221, 240, 252, 263, 268, 275, 286, and 295.



Mass spectrum of the sample showing relative intensity versus m/z . The base peak is at m/z 579. Other significant peaks are labeled at m/z 558, 564, 572, 593, 599, 608, 618, 630, 638, 643, 650, and 657.



$F(5, 8(6))$

1. The first part of the paper is devoted to a review of the literature on the topic. It starts with a general introduction to the concept of "the right to life" and then moves on to a more detailed discussion of the various theories and approaches that have been developed in the field.

A scatter plot titled 'DISCRIMINANT FUNCTION' showing the relationship between Component 1 (X-axis) and Component 2 (Y-axis). The X-axis ranges from -0.27 to 0.69, and the Y-axis ranges from -0.27 to 0.64. Data points are labeled with 'M', 'S', and 'W'. Group 'M' is clustered in the upper right quadrant (positive Component 1 and Component 2). Group 'S' is clustered in the lower right quadrant (positive Component 1, negative Component 2). Group 'W' is clustered in the upper left quadrant (negative Component 1, positive Component 2). There is a significant overlap between groups 'M' and 'W' in the upper left and central regions of the plot.

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398</
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CANONICAL VARIATE 1

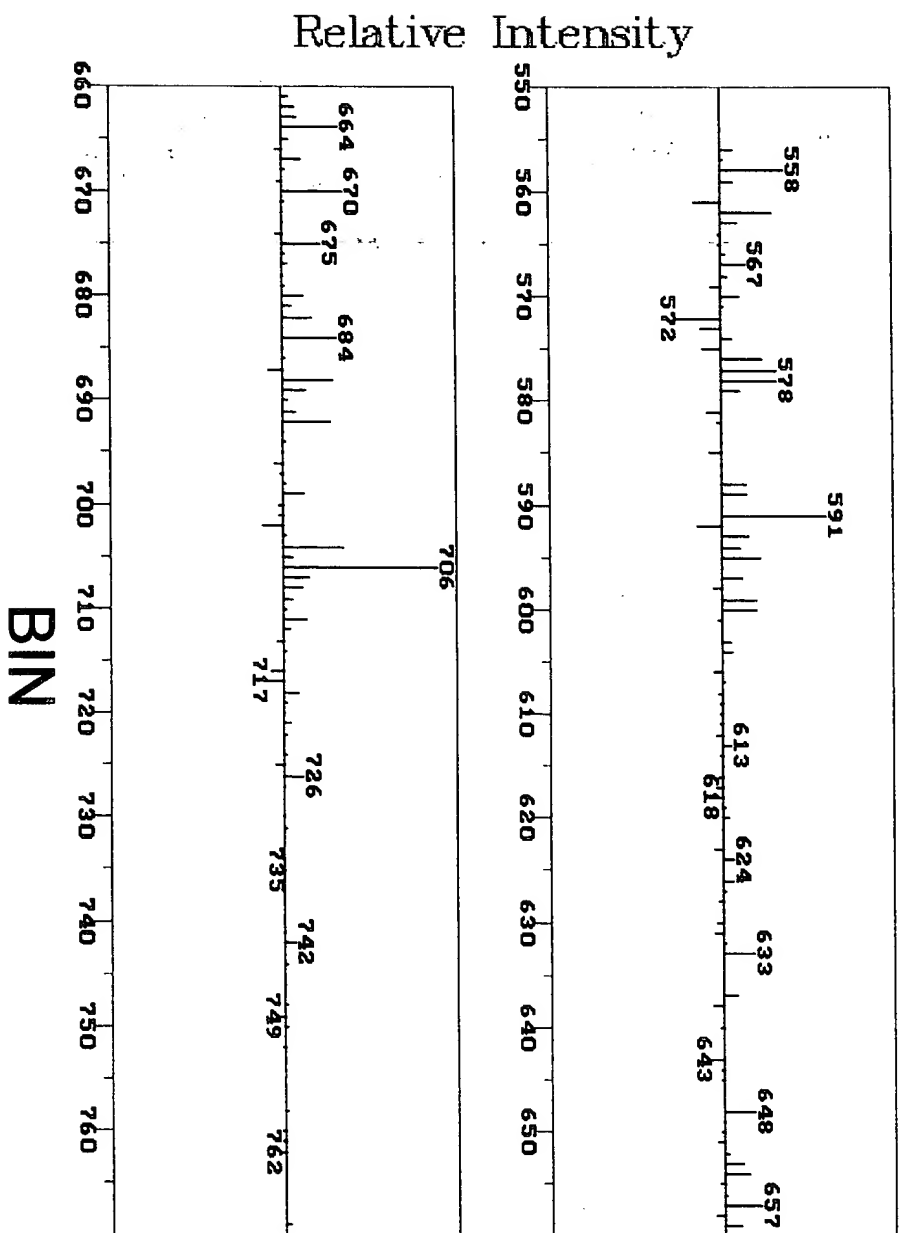
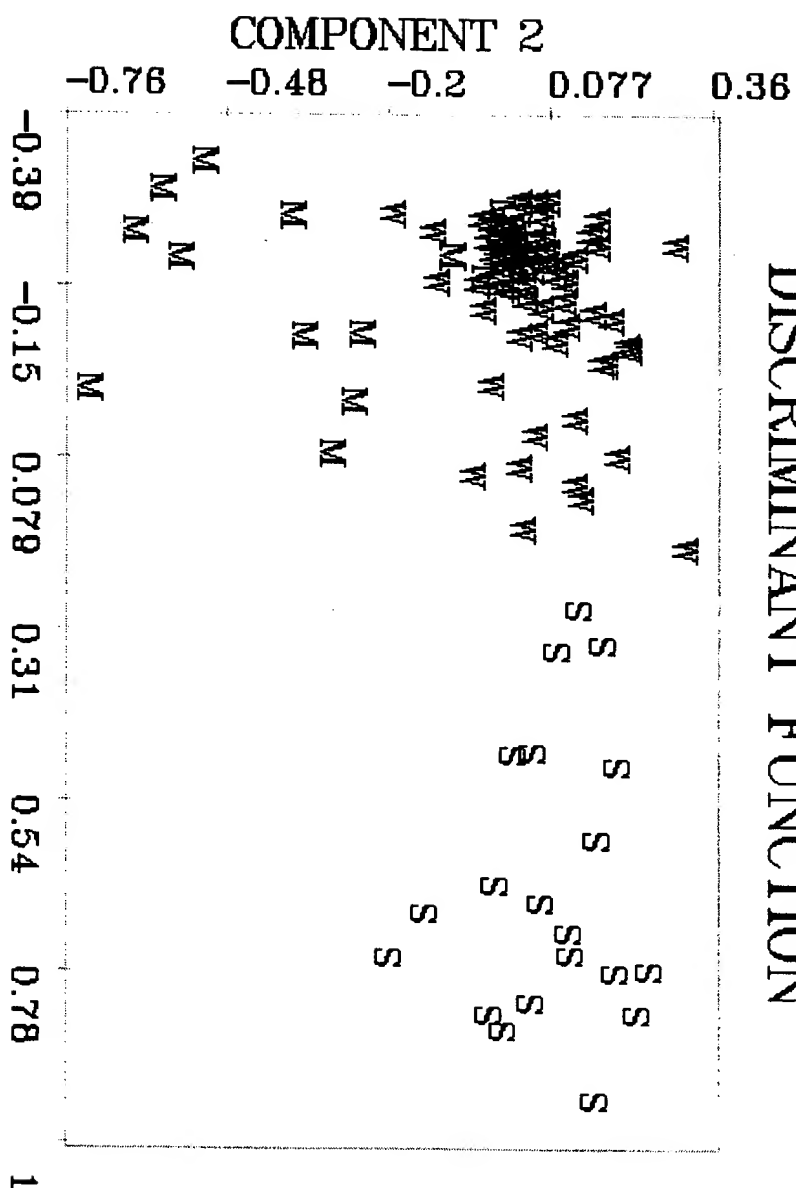


FIG. 10

DISCRIMINANT FUNCTION



COMPONENT 1

FIG. 11

$\frac{d}{dt} \int_{\Omega} u^2 dx = -2 \int_{\Omega} u \Delta u dx = 0$

Relative Intensity

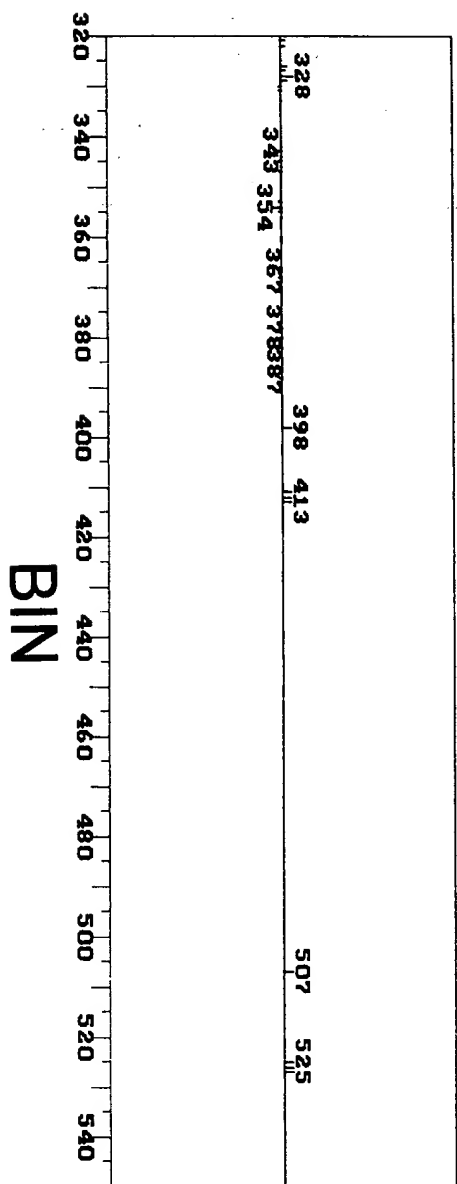
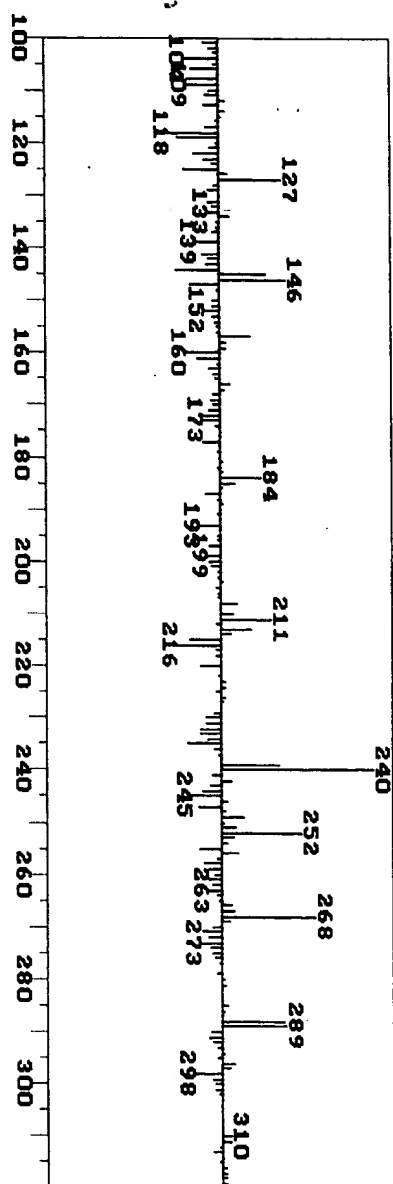


FIG. 12(a)

1. The first group of people who are most likely to be affected by the crisis are those who are most dependent on the state for their livelihoods. These include the poor, the elderly, the disabled, and the unemployed.

CANONICAL VARIATE 1

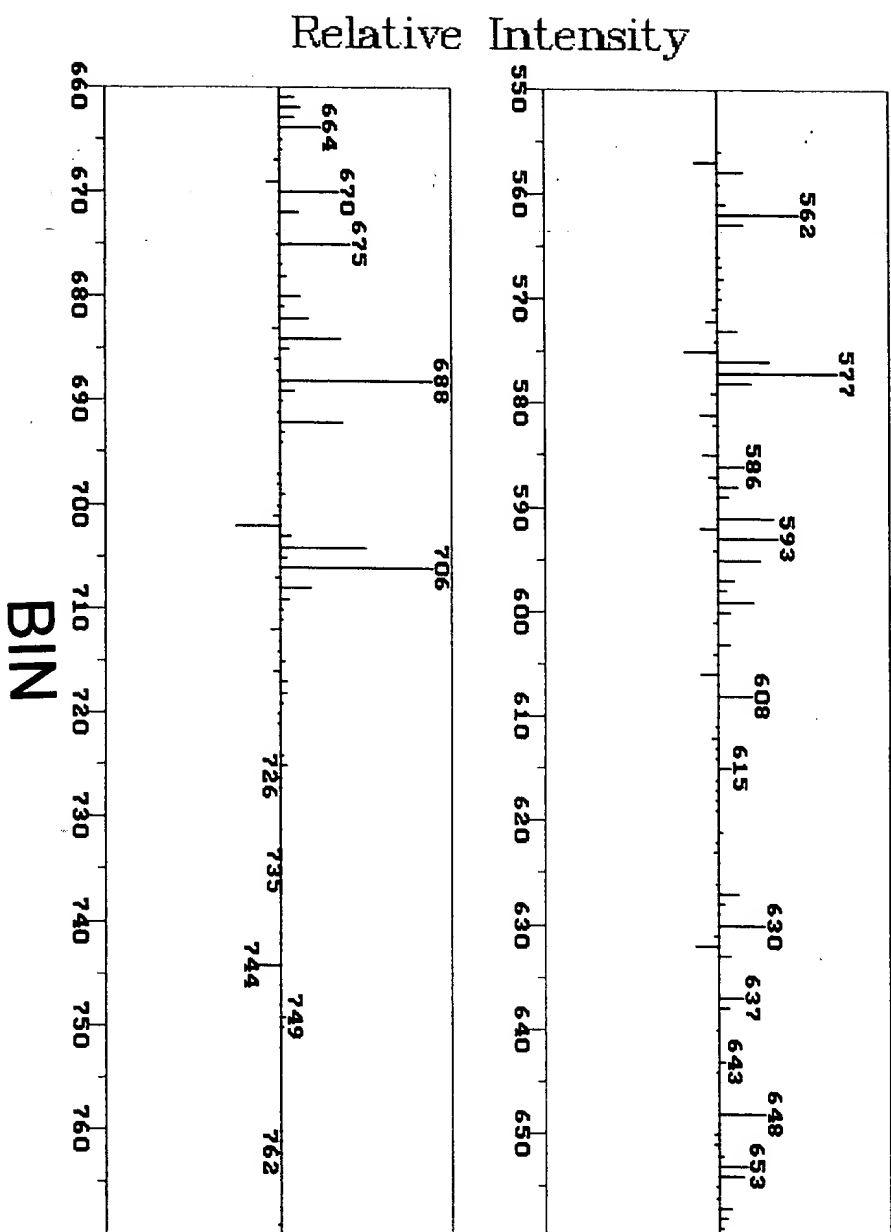


FIG. 12(b)

Fig 14

